

What we claim is:

1 1. A computer system comprising computers, first and second
2 servers connected to said computers, and a storage system connected
3 to said first and second servers, with said storage system comprising
4 a plurality of storage devices and a storage controller which controls
5 said plurality of storage devices, wherein:
6 said first server comprises:
7 a first memory which stores a first program; and
8 a first CPU which executes said first program;
9 said second server comprises:
10 a second memory which stores a second program; and
11 a second CPU which executes said second program;
12 said second program comprises:
13 a part for making a request to said first server for
14 information necessary for said second server to back up a file as a
15 backup object instead of said first server;
16 said first program comprises:
17 a part which responds to said request by sending said
18 second server an identifier of a second storage device that stores
19 duplicate data of said file; and
20 said second program further comprises:
21 a part which obtains backup data from said second storage
22 device, based on said identifier.

1 2. A computer system according to Claim 1, wherein:
2 said second server further connected to a backup server; and

3 said second program further comprises a part which sends
4 the obtained backup data to said backup server.

1 3. A computer system according to Claim 1, wherein:
2 said second program further comprises a part which sets a
3 path to said second storage device, based on said identifier.

1 4. A computer system according to Claim 1, wherein:
2 said first program further comprises a part which inhibits
3 write into said file and which waits data that have not been written
4 yet into a first storage device to store said file, into said first
5 storage device.

1 5. A computer system according to Claim 1, wherein:
2 said first program further comprises:
3 a part which sends said storage system an ID of a port
4 connected to said second storage device; and
5 a part which receives the identifier of said second storage
6 device, with said identifier being sent by said storage system in
7 response to said ID.

1 6. A computer system according to Claim 1, wherein:
2 said request includes a directory name of the backup object.

1 7. A first server connected to computers, a second server and a
2 storage system that comprises a plurality of storage devices and a
3 storage controller which controls said plurality of storage devices,
4 wherein:

5 said first server comprises:
6 a memory which stores a program; and
7 a CPU which executes said program;
8 and
9 said program comprises:
10 a part which inhibits write into a file as a backup
11 object, in response to a request for information necessary for said
12 second server to back up said file instead of said first server, with
13 said request being made by said second server;
14 a part which writes data that have not been written
15 yet into a first storage device to store said file, into said first
16 storage device;
17 a part which generates duplicate data of said file;
18 and
19 a part which sends said second server an identifier of
20 a second storage device that stores said duplicate data.

1 8. A first server according to Claim 7, wherein:

2 said program further comprises:

3 a part which sends said storage system an ID of a
4 port connected to said second storage device; and

5 a part which receives the identifier of said second
6 storage device, with said identifier being sent by said storage
7 system in response to said ID.

1 9. A first server according to Claim 7, wherein:

2 said request includes a directory name of the backup object.

1 10. A second server connected to computers, a first server and a
2 storage system that comprises a plurality of storage devices and a
3 storage controller for controlling said plurality of storage devices,
4 wherein:
5 said second server comprises:
6 a memory which stores a second program; and
7 a CPU which executes said program;
8 and
9 said second program comprises:
10 a part which makes a request to said first server for
11 information necessary for said second server to back up a file as a
12 backup object instead of said first server;
13 a part which receives an identifier of a second
14 storage device that stores duplicate data of said file, from said first
15 server; and
16 a part which obtains backup data from said second
17 storage device, based on said identifier.

1 11. A second server according to Claim 10, wherein:
2 said second program further comprises a part which sets a
3 path to said second storage device, based on said identifier.

1 12. A second server according to Claim 10, wherein:
2 said second server further connected to a backup server; and
3 said second program comprises a part which sends the
4 obtained backup data to said backup server.

1 13. A second server according to Claim 10, wherein:

2 said request includes a directory name of the backup object.

1 14. A backup method for performing backup in a computer
2 system comprising computers, first and second servers connected to
3 said computers, and a storage system connected to said first and
4 second servers, with said storage system comprising a plurality of
5 storage devices and a storage controller which controls said
6 plurality of storage devices, wherein:

7 said second server makes a request to said first server for
8 information necessary for said second server to back up a file as a
9 backup object instead of said first server;

10 said first server sends an identifier of a second storage
11 device that stores duplicate data of said file, in response to said
12 request; and

13 said second server obtains backup data from said second
14 storage device, based on said identifier.

1 15. A backup method according to Claim 14, wherein:

2 said second server sends the obtained backup data to a
3 backup server connected to said second server.

1 16. A backup method according to Claim 14, wherein:

2 said second server sets a path to said second storage device,
3 based on said identifier.

1 17. A backup method according to Claim 14, wherein:

2 said first server inhibits write into said file, and writes data
3 that have not been written yet into a first storage device to store

4 said file, into said first storage device.

1 18. A backup method according to Claim 14, wherein:

2 said first server sends said storage system an ID of a port
3 connected to said second storage device, and receives the identifier
4 of said second storage device, with said identifier being sent by said
5 storage system in response to said ID.

1 19. A backup method according to Claim 14, wherein:

2 said request includes a directory name of the backup object.